INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004514

A CLACCIE	CATION OF CURRECTENANTED	2017017	2004/004J14
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01L21/02, C23C16/44, C23C16/52, C04B41/87			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl ⁷ H01L21/02, C23C16/44, C23C16/52, C04B41/87			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2004			
	Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004		
251 2001			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	• •	Relevant to claim No.
Χ .	JP 2002-274948 A (Toshiba Co 25 September, 2002 (25.09.02	eramics Co., Ltd.),	1-4
•	Par. No. [0011]		
	& EP 1219578 A2		
	Par. Nos. [0023] to [0024]		
	& JP 2002-201071 A & US	3 2002/0151428 A1	
A	JP 2000-91171 A (Bridgestone Corp.),		1-13
	31 March, 2000 (31.03.00),		1 1,5
	Full text		
	(Family: none)		
A	JP 2003-68594 A (Tokai Carbon Co., Ltd.),		1-13
	07 March, 2003 (07.03.03),		- ;
•	Full text (Family: none)		
	(ramily. Hone)		
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "T" later document put document defining the general state of the art which is not considered date and not in considered."			mational filing date or priority
to be of parti	cular relevance	date and not in conflict with the applica the principle or theory underlying the in	tion but cited to understand
"E" earlier applic	ation or patent but published on or after the international	"X" document of particular relevance: the cl	aimed invention cannot be
"L" document wi	hich may throw doubts on priority claim(s) or which is	considered novel or cannot be considered when the document is taken alone	ered to involve an inventive
cited to esta	blish the publication date of another citation or other n (as specified)	"Y" document of particular relevance; the cl	aimed invention cannot be
"O" document ref	considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obtained to involve an inventive step when the document is combined with one or more other such documents, such combination being obtained to a second state of the such documents.		documents, such combination
"P" document pu the priority d	blished prior to the international filing date but later than ate claimed	being obvious to a person skilled in the "&" document member of the same patent fa	
Date of the actual completion of the international search Date of mailing of the international search report			h report
03 June, 2004 (03.06.04) 22 June, 2004 (22.06.04)			
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Facsimile No. Telephone No.			